

## CLAIMS

1. An electrical cable comprising<sup>20</sup>  
a plurality of longitudinally extending twisted pairs of conductive elements;<sup>14</sup>  
at least one corrugated tape member<sup>22</sup> separating at least one of said twisted pairs of<sup>22</sup>  
conductive elements from an adjacent one of said twisted pairs of conductive elements,<sup>22</sup>  
wherein [the corrugated tape member] separates and maintains spacing between twisted  
pairs separated by said at least one corrugated tape member; and  
a dielectric jacket<sup>14</sup> surrounding and enclosing the plurality of twisted pairs.
2. An electrical cable as claimed in claim 1, wherein said cable comprises  
four twisted pairs and [the corrugated tape member] separates two of the twisted pairs from<sup>14 FIG 2</sup>  
the remaining two twisted pairs. *middle two from*  
*t & b*
3. An electrical cable as claimed in claim 1, wherein said cable comprises  
more than one corrugated tape member. <sup>22</sup>
4. An electrical cable as claimed in claim 1, wherein said cable comprises at  
least one corrugated tape member and at least one other means for separating and  
maintaining spacing between twisted pairs. *two tapes*
5. An electrical cable as claimed in claim 1, wherein [the corrugated tape  
member] is comprised of a flexible, dielectric material. *1, 60-67*
6. An electrical cable as claimed in claim 5, wherein [the corrugated tape  
member] is comprised of one or more materials selected from the group consisting of  
polypropylene tape, polyamide woven glass, polyvinyl chloride, one or more polyolefins,  
and one or more fluoropolymers. *1, 60-67*

1 7. An electrical cable as claimed in claim 1, wherein the corrugated tape  
2 member is configured to have a width of approximately 0.12 inches to approximately  
3 0.40 inches.

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1 8. An electrical cable as claimed in claim 1, wherein the corrugated tape  
2 member is configured to have a thickness of approximately 8 mils to approximately 12  
3 mils.

2,1-3

1 9. An electrical cable as claimed in claim 1, wherein the corrugated tape  
2 member is longitudinally corrugated along a length of the tape and said longitudinally  
3 corrugated tape extends along a length of the twisted pairs separated by the corrugated  
4 tape and along a length of said electrical cable.

1 10. An electrical cable as claimed in claim 9, wherein the longitudinal  
2 corrugations comprise a series of ridges and grooves having a corrugation length,  
3 measured from a first ridge to a second ridge, and said corrugation length being  
4 approximately 0.12 inches.

1 11. An electrical cable as claimed in claim 1, wherein the corrugated tape  
2 member is corrugated across a width of the tape and, and wherein the width corrugated  
3 tape extends along a length of the twisted pairs separated by the tape and along a length  
4 of said electrical cable.

1 12. An electrical cable as claimed in claim 11, wherein the corrugations across  
2 the width of the tape comprise a series of ridges and grooves having a corrugation length,  
3 measured from a first ridge to a second ridge, and said corrugation length being  
4 approximately 0.06 inches.

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1 13. An electrical cable as claimed in claim 1, wherein a plurality of tape  
2 members are incorporated into said cable for separation of said twisted pairs and at least  
3 one of said tapes is a corrugated tape member.

1 14. An electrical cable as claimed in claim 1, wherein a corrugated tape  
2 member is supplied for separating at least one of said twisted pairs from a remainder of  
3 the twisted pairs and wherein said tape member is corrugated so as to have an effective  
4 thickness that exceeds an actual thickness of said tape member.

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1 15. An electrical cable as claimed in claim 14, wherein said corrugated tape  
2 member provides a spacing of said twisted pairs that equals or exceeds a spacing  
3 achieved by a flat tape member having an equivalent actual thickness of material as the  
4 corrugated tape member.

1 16. An electrical cable as claimed in claim 1, wherein said corrugated tape  
2 member comprises a fire retardant polypropylene material. KAPTON  
FEP

1 17. A tape member for incorporation in an electrical cable to separate twisted  
2 pairs of conductive elements contained therein, comprising:

3 a length of tape member configured along a length of said twisted pairs and a  
4 length of said electrical cable; and  
5 a plurality of corrugations configured into said tape member.

1 18. An electrical cable as claimed in claim 17, wherein the corrugated tape  
2 member is configured to have a width of approximately 0.12 inches to approximately  
3 0.40 inches.

1 19. An electrical cable as claimed in claim 17, wherein the corrugated tape  
2 member is configured to have a thickness of approximately 8 mils to approximately 12  
3 mils.

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1 20. A tape member as claimed in claim 17, wherein said plurality of  
2 corrugations are longitudinally configured into said tape member.  
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1 21. An electrical cable as claimed in claim 20, wherein the longitudinally  
2 configured corrugations comprise a series of ridges and grooves having a corrugation  
3 length, measured from a first ridge to a second ridge, and said corrugation length being  
4 approximately 0.12 inches.

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1 22. A tape member as claimed in claim 17, wherein said plurality of  
2 corrugations are configured across a width of said tape.

1 23. An electrical cable as claimed in claim 22, wherein the corrugations across  
2 the width of the tape comprise a series of ridges and grooves having a corrugation length,  
3 measured from a first ridge to a second ridge, and said corrugation length being  
4 approximately 0.06 inches.

1 24. A tape member as claimed in claim 17, wherein at least one said  
2 corrugated tape member is provided within said electrical cable for separating at least one  
3 of said twisted pairs of conductive elements from adjacent twisted pairs of conductive  
4 elements, and wherein the corrugated tape member separates and maintains spacing  
5 between said twisted pairs.

1 25. A tape member as claimed in claim 17, wherein said corrugated tape  
2 member separates two twisted pairs from two remaining twisted pairs in a four twisted  
3 pair electrical cable.

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1 26. A tape member as claimed in claim 20, wherein said longitudinally  
2 corrugated tape member separates at least one of said twisted pairs from a remainder of  
3 twisted pairs and said tape member is corrugated so as to have an effective thickness that  
4 exceeds an actual thickness of said tape member.

1 27. A tape member as claimed in claim 20, wherein said corrugated tape  
2 member provides a spacing of said twisted pairs that equals or exceeds a spacing  
3 achieved by a flat tape member having an equivalent actual thickness of material as the  
4 corrugated tape member.

1 28. A tape member as claimed in claim 17, wherein the corrugated tape  
2 member is comprised of a flexible, dielectric material.

1 29. A tape member as claimed in claim 17, wherein the corrugated tape  
2 member is comprised of one or more materials selected from the group consisting of  
3 polypropylene tape, polyamide woven glass, polyvinyl chloride, one or more polyolefins,  
4 and one or more flouropolymers.

1 30. A tape member as claimed in claim 17, wherein said corrugated tape  
2 member comprises a fire retardant polypropylene material.